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SUBJECT: CAMERA INFORMATION FOR MISSION 1039-1

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA, AND AN INDEX CAMERA.

2. CAMERA DATA

A. MAIN UNITS	FORWARD	AFT	STAR HOR	PORT HOR
FOCAL LENGTHS (MM)	609.628	609.628	FWD 55.000	FWD 54.350
			AFT 55.000	AFT 54.900
FILTER (WRITTEN NO.)	23A	21	25	25
APERTURE	F3.5	F3.5	F8.0	F6.3
SLIT WIDTH (IN)	.225	.175	1/100	1/100
EXPOSURE (SEC)				
FILM	3404	3404	3404	3404
RESOLUTION (L/MM)	200	220	N/A	N/A
B. S/I UNITS		STELLAR	INDEX	
FOCAL LENGTH (MM) PART 1	84.0284	38.3894		
PART 2	83.9873	38.3351		
FILTER (WRITTEN NO.)	NONE	21		

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APERTURE	F1.8	F4.5
EXPOSURE (SEC)	2.0	1/500
FILM	3401	3400
RESOLUTION (L/MM) PART 1		76
PART 2		71
UNIT NUMBER	PART 1	D103/131/132
	PART 2	D100/125/125

3. LENS DISTORTION (PIN CUSHION) MM

A. MAIN UNITS	3	2	1	0	359	358	357
FWD UNIT	.002	.0	.0	.0	.0	.001	.003
AFT UNIT	.002	.001	.0	.0	.0	.002	.003

B. HORIZON CAMERAS (MM)	FWD		AFT	
	PORT	STAR	PORT	STAR
(RADIAL) 10 DEGREES	.010	.030	.020	.020
20 DEGREES	.040	.100	.050	.060
(TANGENTIAL) MAX VECTOR	.025	.040	.030	.030

4. CAMERA ANGLES

DEG. MIN.

A. ANGLE BETWEEN PAN CAMERAS

29 43.02

B. DEPRESSION ANGLE BETWEEN

FWD STAR

14 21.2

HORIZON AND PAN CAMERAS

FWD PORT

15 32.5

AFT STAR

15 30.2

AFT PORT

15 37.6

C. ANGLE BETWEEN STELLAR

PART 1

89 58.8

AND INDEX CAMERAS

PART 2

89 59.2

5. TIMING MARKS

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FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA (CYCLE RATE (CPS), GROUND ANGULAR VELOCITY (GAV), AND PASSES WHERE USED).

REF. LEVEL			AMPL. LEVEL			PASSES
NO.	CPS.	GAV.	NO.	CPS.	GAV.	
6	.3518	.0318	5	.0856	.0077	1 THRU 11
6	.3518	.0318	4	.0988	.0089	13 THRU 79

1

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